POWER REQUIREMENT STUDY,

COVINGTON ELECTRIC COOPERATIVE, INC.

0

ALABAMA 44 COVINGTON

(Revised)



Prepared by
Program Analyst
Office of the Administrator
RURAL ELECTRIFICATION ADMINISTRATION

May 1952

OFFICE OF MUTANESS OF STREET



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POWER REQUIREMENT STUDY 1/

ALABAMA 44 COVINGTON

(Revised)

Foreword

This study has been prepared by the Rural Electrification Administration for use in determining the present and estimated future power requirements of the Covington Electric Cooperative, Inc. (Alabama 44 Covington).

The estimates of future loads contained in the study have been arrived at from a field survey in the Cooperative's area and from basic data obtained in the Cooperative's office. The estimates of kwh consumption for farm, nonfarm and town residential consumers used herein are based upon a projection of historical trends in consumption, type of farm, income, competitive sources of energy, and other economic factors which are believed to have a bearing on the future use of electricity in this area.

The estimates of average unit kilowatt demands per consumer at peak load, corresponding to the estimated average kilowatt-hour consumption per member per month of farm, nonfarm and small commercial consumers, have been derived from the curve "Maximum Demand at Substation" accompanying Engineering Memorandum No. 94R5 of the Engineering Division, REA, dated August 21, 1950. The total number of consumers to be served in each substation area, rather than the number of consumers in a particular class, was used as a basis in arriving at the total and unit demands in order to reflect the probable overall diversity between classes of consumers in a given substation area. No adjustment for a power factor less than unity was applied, it being assumed for estimating purposes that the KVA demand as read from the curve was equal to the KW demand at the substation.

Summary and Conclusions

Pertinent information reflecting the data and conclusions arrived at regarding the present and future number of consumers, kilowatt-hour requirements, and kilowatt demands for the Covington Electric Cooperative, Inc. (Alabama 44 Covington) are included in the attached Tables I to XI, Inclusive.

Table XI (Summary of Power Requirements) indicates that approximately 7,858 consumers will be served by the Cooperative in 1954, 8,158 in 1957, and 8,558 in 1962, at an estimated maximum demand at substation of 6,955 kilowatts in 1954, 8,343 kilowatts in 1957, and 10,819 kilowatts in 1962. Likewise, it is estimated that the Cooperative's annual energy requirements at substations will approximate 29.2 million kilowatt-hours in 1954, 35.6 million kilowatt-hours in 1957, and 47.1 million kilowatt-hours in 1962.

1/ Based on a field survey conducted by Abner H. Beard, Engineer, Office of the Administrator, REA, USDA.

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Poreword

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The estimates of feture loads contained in the study have been arrived at true a field survey in the Compositive's area and from books and one in the Compositive's office. The estimates of load consumption for form, and tom residential consumms used hereis are based upon a projection of listeness of trends in consumption, type of farm, income, competitive accurate of energy, and other execution that are believed to have a besides on the farm of the farm of clearing the interest of the farm of the farm of clearing the interest of the farm of the farm of clearing the interest of the farm of the farm of clearing the interest.

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Persiant information reflacting the data and conclusions arrived at regarding the present and fiture audher of concusors, willower-book regularments, and wilcount demands for the Covington Flocking Conperative, Inc. (Alebama de Covington), are included in the attended lables I to M. Inclusive.

Table XI (Survey of Fower Begulrecents) indicates that approximately 7,858 consumers will be served by the Comparative in 1954, 8,158 in 1957, and 8,550 in 1965, at so settented maximum tenend at ambination of 6,955 and 8,550 in 1965, at 1965, and 1967, and 10,819 kilowatts in 1968, billionation of the contractive and it is notice and that the Comparative and the contractive and the contraction of 1966, 25,6 at 1110 kilowatt-hours in 1964, 25,6 at 1110 kilowatt-hours in 1964, 25,6

lesed on a field survey conducted by Asser H. Feord, Engineer, Office of the Administrator, HMA, URIA.

The degree of attainment of area coverage by the Cooperative, as well as the achievement of the estimated kilowatt-hour consumption foreseen in this report, are contingent on the following important considerations:

- 1. An adequate, dependable source of low-cost power supply.
- 2. Dependable, adequate electrical power to the ultimate consumer with a minimum of interruption in service and at the lowest retail rate commensurate with "pay out" considerations.
- 3. A fully prosecuted power use program designed to attain the goals of saturation of appliances and farm equipement reflected by the estimates included in this report.

E. C. Weitzell, Program Analyst he fiew as evitarenced and of exercise are to tasminate to series and in measure of the schlowest of the entire that will out the consumeration to the series of the following temporary continues to the following temporary continues t

- . The adequate, dependence of to-coop power service.
 - 2. Impondable, adequate electrical power to the ultimate consumer with a minimum of interruption in service and at the lowest retail rate commandate with "pay out" confiderations.
- the goals of saturation of appliances and farm equipment to appliances and farm equipment.

E. C. Feltmell,

TABLE 1

COMPARATIVE ANNUAL OPERATING DATA ON CONSUMERS AND AVERAGE MONTHLY CONSUMPTION

ALABA	AMA 44 CO	ALABAMA 44 COVINGTON (REV.)	REV.	NONEARM	NOMEARM RESIDENTIAL	TIAI	Sella I	COMMERCIAL	A	LAR	LARGE POWER			OTHER			TOTAL	
YEAR	MEMBERS	YEAR MEMBERS AVERAGE	11	MEMBERS	AVERAGE	1 1	MEMBERS	AVERAGE		WEN BERS	MEMBERS AVERAGE		2 144		1GE	MEMBERS	AVERAGE	AGE
	NO.	KWH/MO. %INCR. NO.	%INCR.		KWH/MD. \$INCR. NO.	\$1NCR.	200	KWH / MO. SINCR. NO.	%INCR.	9	KWH/MO. SINCR.	SINCR	° C	WHIT WO. SINCH.	% INCR.	- ON	KWH/ NO. % INCK	S ECK
1947	1947 1,818	8	;	111	132	+	430	208	1	6	16,9787	3	5	966	ł	2,973	991	1
1948	1948 2,131	82	1.2	615	168	27.3	376	262	26.0	7	23,462	39 .8	3	301	-24.0 3,132	3,132	170	204
1949	1949 3,850	18	-1.2	664	186	10.01	433	255	-207	6	20,203	-13.9	8	321	9-9	6-6 4,959	146	-1401
1950	1950 5,212	88	9*8	715	205	10.2	541	207	-18.8	=	20,948	307	2	989	11307	11307 69484	146	0
1951	90965 1561	110	25,0	25.0 747	210	2.4.	603	239	15.5 12	12	23,779	13.5	2	151	9.5	9.5 6.973	173	18.5
SUM (1	SUM OF YEARLY %INCR. (1947 - 1951) AVERAGE PER YEAR	%INCR.	33.6			50.6			20.0			4301		<i>\tau</i>	105.8			6.8

NOTE: THIS COOPERATIVE BEGAN OPERATIONS IN AUGUST 1944, ON ACCOUNT OF EXCHANGE OF PROPERTIES BETWEEN THE ADJOINING COOPERATIVES, STATISTICS DO NOT CONVEY A COMPREHENSIVE RECORD.

PROGRAM ANALYST, OFFICE OF THE ADMINISTRATOR, REA - MAY 1952

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TABLE 11

COMPARATIVE ANNUAL OPERATING DATA ON ENERGY REQUIREMENTS

### AVERAGE TOTAL TOTAL COST MILES SERVICES PER KWH ENERGIZED CONNECTED ### OF TOTAL TOTAL TOTAL COST	ALABAMA 44 COVINGTON (REV.)	EV.)									
- 727,774 11.03 * \$.0119 206 2,865 12.5 709,487 10.00 * .0117 595 3,309 36.3 1,471,409 14.04 * .0112 1,355 5,713 27.5 2,586,379 21.00 5,257 .0102 1,516 7,303 26.6 14.00	ENERGY		ENER	و <u>۸</u>	ENER	} 5	MAXIMUM	AVERA GE	TOTAL	TOTAL	OVERALL
727,774 11,03 * \$.0119 206 2,865 12,5 709,487 10,00 * .0117 595 3,309 36,3 1,471,409 14,04 * .0112 1,355 5,713 20,2 2,083,381 15,5 4,409 .0104 1,355 6,721 27,5 2,586,379 21,0 5,257 .0102 1,516 7,303 26,6 14,00	%INCR.					\$10SS	DEMAND	PER KIN	ENERGIZED	COMNECTED	DENSITY
12.5 709,487 10.0 * .0117 595 3,309 36.3 1,471,409 14.0 * .0112 1,355 5,713 30.2 2,083,381 15.5 4,409 .0104 1,355 6,721 27.5 2,586,379 21.0 5,257 .0102 1,516 7,303 106.5 14.0 14.0 .0102 1,516 7,303	1		5,684,552	1	727,774	11.3	*	6110.	206	2,865	19.97
36.3 1,471,409 14.04 * .0112 1,355 5,713 30.2 2,083,381 15.5 4,409 .0104 1,355 6,721 27.5 2,586,379 21.0 5,257 .0102 1,516 7,303 106.5 14.0 26.6 14.0	10.8		6,394,470	12.5	709,487	1000	*	7110°	595	3,309	5.56
30.2 2,083,381 15.5 4,409 .0104 1,355 6,721 27.5 2,586,379 21.00 5,257 .0102 1,516 7,303 106.5 14.0	43.4		9000 2112 8	36.3	1,471,409	1404	* .	•0112	1,355	5,713	4.22
27.5 2,586,379 21.00 5,257 .0102 1,516 7,303 106.5 26.6 14.0	31.9		11,352,212	30.2	2,083,381	15.5	4,409	*0104	1,355	6,721	4.96
	27.0		14,477,004	27.5	2,586,379	21,00	5,257	*0105	1,516	7,303	4.82
	28.3			106.5		14.0					

* NOT AVAILABLE.

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TABLE 111

ESTIMATE OF LOADS - OPP SUBSTATION AREA

ALABAMA 44 COVINGTON (REV.)									
	NUMBE	NUMBER OF CONSUMERS	SUMERS		KW DEMAND		ANNU	ANNUAL MIN REQUIREMENTS	MENTS
TYPE OF CONSUMER	1954	1957	1962	1954	1957	1962	1954	1957	1962
			`	@0.624	000775	@1.032	0861@	© 2580	00960
FARM	1.131	1,166	1,213	902	904	1,252	2,239,380	3,008,280	4,366,800
				188000	786.00	@1.182	@3000	@3420	64200
TOWN RESIDENTIAL	106	110	115	93	109	136	318,000	376,200	483,000
				61.077	906.19	012721	03780	Ø4680 ·	66300
SMALL COMMERCIAL	54	56	58	58	73	100	204,120	262,080	365,400
				00-174	@0.216	00.257	6480	. 0090	@720
SCHOOLS & CHURCHES	37	38	40	9	8	10	. 17,760	22,800	. 28,800
				02.727	63, 121	@45411	@10,200	011,700	@14,400°
STREET LIGHTING	-		_	3	3	4	10,200	11,700	14,400
LARGE POWER:				@23/1.50F	@23/1.50F	@23/1.50F		,	
DRIVE-IN THEATER	-		_	15	15	15	40,500	40,500	40,500
			ACCUPATION ASSESSMENT OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PER	-					
SUB-TOTAL							2,829,960	3,721,560	5,298,900
							. 50%	619%	018%
PLUS DIST. LOSSES (APPROX.)							707,040	873,440	1,163,100
			,						
TOTAL	1,330	1,372	1,428	881	1,112	1,517	3,537,000	4,595,000	6,462,000
					ANNUAL LOAD FACTOR -	FACTOR -	45.8%	47 - 2%	48.6%

PROGRAM ANALYST, OFFICE OF THE ADMINISTRATOR, REA - MAY 1952

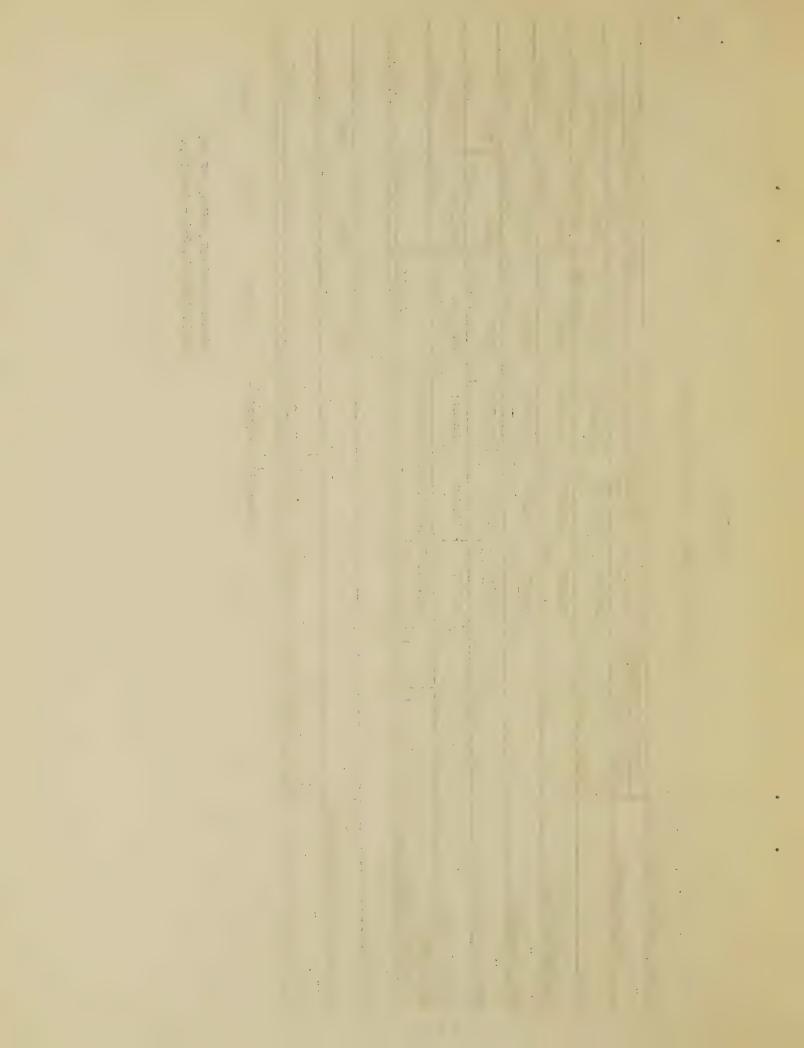


TABLE IV

ESTIMATE OF LOADS - DAMASCUS SUBSTATION AREA

ALABAMA 44 COVINGTON (REV.)			-						
	NUMBER	NUMBER OF CONSUMERS	UMERS		KIN DEMAND	0	ANNE	ANNUAL KITH REOU IREINENTS	EMENTS
TYPE OF CONSUMER	1954	1957	1962	1954	1957	1962	1954	1957	1962
				60.616	90-765	610-10	. 08610	@2580 ·	03600
FARM	1,488	1,573	1,685	917	1,203	1.717	2,946,240	4,058,340	000,990,9
				698*0@	@00974	01.166	00060	63420	64200
TOWN RESIDENTIAL	282	298	320	245	290	37.3	846,000	1,0 9,160	1,344,000
				690,10	@1.288	869"10	@37 80 ·	@4680	006300
SMALL COMMERCIAL	154	163	175	164	210	297	582,120	762,840	1,102,500
				00.172	@0.213	@0.253	@480	0090	@720
SCHOOLS & CHURCHES	47	48	50	8	10	13	22,560	28,800	36,000
LARGE POWER:				@23/1.5DF	@23/1.5DF	@23/1.5DF			
DRIVE-IN THEATER	3-4	•	9-4	15	15	15	40,500	40,500	40,500
SUB-TOTAL		-					4,437,420	5,909,640	8,589,000
							\$20%	, %610	018%
PLUS HIST. LOSSES (APPROX.)							1,109,580	1,386,360	1,885,000
TOTAL	1,972	2,083	2,231	1,349	1,728	2,415	5,547,000	7,296,000	10,474,000

PROGRAM AMALYST, OFFICE OF THE ADMINISTRATOR, REA - MAY 1952

49.5%

48.2%

46.9%

AMNUAL LOAD FACTOR -

TABLE V

ESTIMATE OF LOADS - RIVER FALLS SUBSTATION AREA

ALABAMA 44 COVINGTON (REV.)									
	NUMBER	P	CONSUMERS		KW DEMAND		ANNU	ANNUAL KWH REQUIREMENTS	MENTS
TYPE OF CONSUMER	1954	1957	1962	1954	1957	1962	1954	1957	1962
		•		919*0@	60.765	610.10	0861@	@2580	00960
FARM	2,498	2,581	2,690	1,539	1,974	2,741	4,946,040	6,658,980	9,684,000
		,		698.00	00.974	991010	03000	@3420	@4200
TOWN RESIDENTIAL	254	262	273	221	255	318	762,000	896,040	1,146,600
				61.063	@1,288	@1.698	03780	@4680	00690
SMALL CONNERCIAL	136	140	146	145	180	248	514,080	655,200	919,800
				@0°172	P0.213	@0.253	@ 480	0090	@720
SCHOOLS & CHURCHES	83	84	98	14	18	22	. 39,840	50,400	61,920
				62,692	63,080	04.411	@10,200°	@11, 30	@14 9400 °
STREET LIGHTING	2	2	2	5	9	6	20,400	23,400	28 ,800
LARGE FOWER:				@27/1.5DF	@27/1°50F	@27/1.5DF			•
DRIVE-IN THEATER	-	-	-	18	18	18	24,500	24,500	24,500
				@47/1.25DF	@47/1025DF	@47/1.25DF			
BRICK CO.		-	~	38	38	38	250,000	250,000	250,000
				@288/4.0DF	@288/4.0DF	@288/4.0DF			
LUMBER CO.	-	-	-	72	72	72	604,000	604,000	604,000
				077/103DF	@77/1.30F	@77/1.3DF	,		•
PACKING CO.	-	-		59	59	59	317,000	317,000	317,000
				@144/1.1DF	@144/1.1DF	@144/101DF			
CITY WATER WORKS	-	-	-	130	130	130	315,000	320,000	350,000
				@65/4.0DF	@65/4~0DF	@65/4,0DF	•		,
LUMBER CO.	-	-	-	91	16	91	50,000	50,000	50,000
T T T T T T T T T T T T T T T T T T T					+	4	,		
יאופארר רובעו		-					1,500	1,500	1.500
SUB-10TAL							7,844,360	9,851,020	13,438,120
Accepted of proper told outle							@20%	\$610	018%
TEXTS DISI - LUSSES (APPROX -)							1,960,640	2,310,980	2,949,880
TOTAL	2,980	3,076	3,204	2,257	2,766	3,671	9,805,000	12,162,000	16,388,000
				†					

SEASONAL DOES NOT OPERATE AT TIME SYSTEM PEAK OCCURS.

ANNUAL LOAD FACTOR -

49.6% 50.2% PROGRAM ANALYST, OFFICE

51.0%

PROGRAM ANALYST, OFFICE OF THE ADDITIONAL REAL MAY 1952

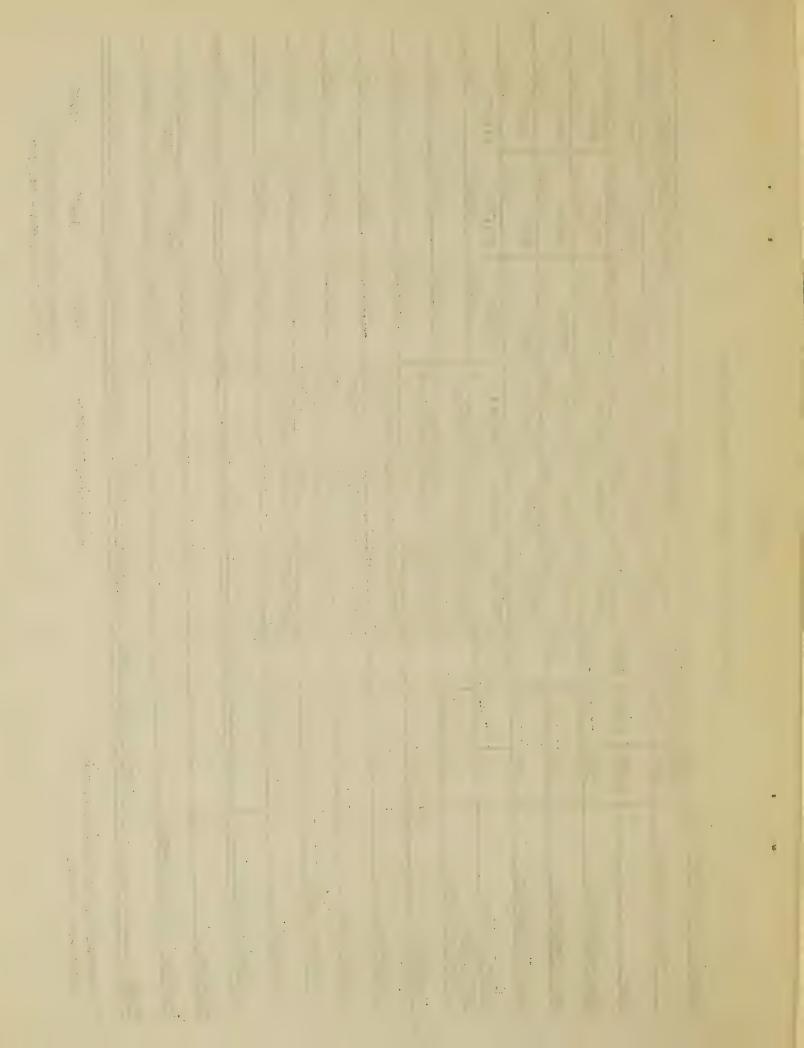


TABLE VI

ESTIMATE OF LOADS - BRANTLEY SUBSTATION AREA

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ALABAMA 44 COVINGTON (REV.)									
	NUMBER	OF CONSUMERS	UMERS		KW DEMAND		ANNO	ANNUAL MAH REQUIREMENTS	ENTS
TYPE OF CONSUMER	1954	1957	1962	1954	1957	1962	1954	1957	1962
				@0.616	@0.765	610010	08610	@25 EO	03600
FARM	1,203	1,243	1,295	741	951	1,320	2,381,940	3,206,940	4,662,000
				698.00	@0.974	991-10	. 0006@	@3420	@4200
TOWN RESIDENTIAL	216	223	233	188	217	272	648,000	762,660	978,600
				@1.063	@1,288	@1.698	08 16 0	@4680	30690
SMAIL COMMERCIAL	101	104	108	107	134	183	381,780	476,720	680,400
				000172	60.213	@0°253	@480	0090	@720
SCHOOLS & CHURCHES	43	44	46	7	6	12	. 20,640	26,400	33,20
				@5•69z	@3,080	64.411	@10,200	.002:119	@14,400
STREET LIGHTING	2	2	2	5	9	6	20,400	23,400	28,800
LARGE POWER:				@42/3°0DF	@42/3.0DF	@42/3.0DF			
SAND & GRAVEL CO.	-			14	14	14	12,000	12,000	12,010
	gan, cords			@35/2°50F	@35/2~50F	@35/2°50F	`		`
TEXTILE PRODUCTS CO.		-	-	14	14	14	58,000	58,000	58,010
							@1500	00510	@1500
FOOTBALL FIELD *	2	2	2	*	*	*	3,000	3,000	3,000
				@20/4.0DF	@20/4.0DF	@20/4.0DF		,	
GROVE FACTORY	-	-	-	5	5	5	44,000	44,000	44,000
							`		
BUB-TOTAL							3,569,760	4,623,120	6,499,920
PLUS DIST. LOSSES (APPROX.)							@20% .	619%	@18%
							075,540	15004,000	1242(5080
TOTAL	1.570	1.9621	1,689	1,081	1,250	1,829	4,462,000	5,708,000	7,927,000

SEABONAL DOES NOT OPERATE AT TIME SYSTEM PEAK OCCURS.

ANNUAL LOAD FACTOR -

%1-24

48.3%

49.5%

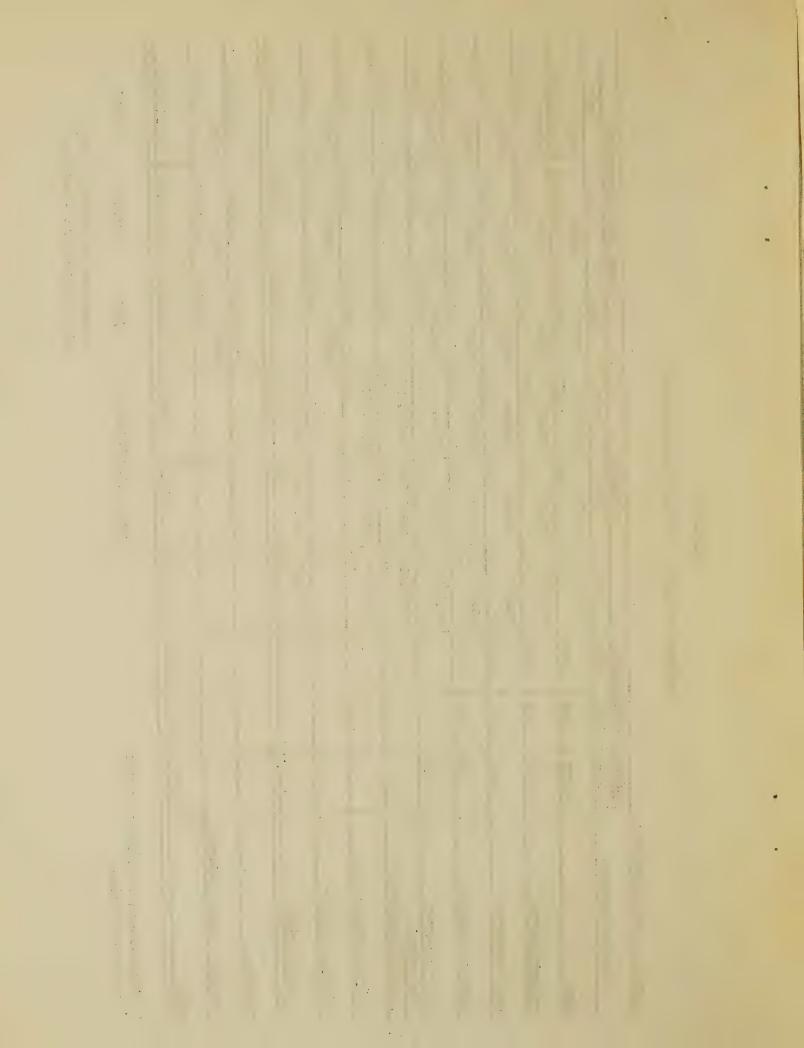


TABLE VII

ESTIMATE OF LOADS - ANDALUSIA SUBSTATION AREA

ALABAMA 44 COVINGTON (REV.)									
	NUMBER	NUMBER OF CONSUMERS	UMERS		KW DEMAND		ANNUA	ANNUAL KWH REQUIREMENTS	ENTS
TYPE OF CONSUMER	1954	1957	1962	1954	1957	1962	1954	1957	1962
LARGE POWER ONLY:				@173/2,0DF	€173/2,00F	617			
COTTON OIL MILL	-		-	86	98	86	256,000	256,000	256,000
				@138/10F	@138/1.1DF @138/1.1DF	@138/1.1DF			
COLLON GIN *	-	-		125	125	125	152,000	152,000	152,001
				@102/1.1DF	8102/1.1DF 8102/1.1DF 8102/1.1DF	@102/1a1DF			
COTTON OIL MILL				93	93	93	100,700	100,000	100,700
				@94/1.2DF	@94/1°2DF	@94/1.2DF		,	
GARMENT PLANT	6-4	-		78	78	78	102,600	102,600	102,600
STOT- CIPO		-							
SCD-10 M.					The section of the se		61 1,300	611,300	611,300
							. %10	. %10	%010%
PLUS DIST. LOSSES (APPROX.)							67,700	67,700	67,70%
TOTAL	4	4	4	382	382	382	679,000	679,000	000°6 29

PROGRAM ANALYST, OFFICE OF THE ADMINISTRATOR, REA - MAY 1952

20.3%

20.3%

2003%

ANNUAL LOAD FACTOR -

* SEASONAL FEVE MONTHS OPERATION.

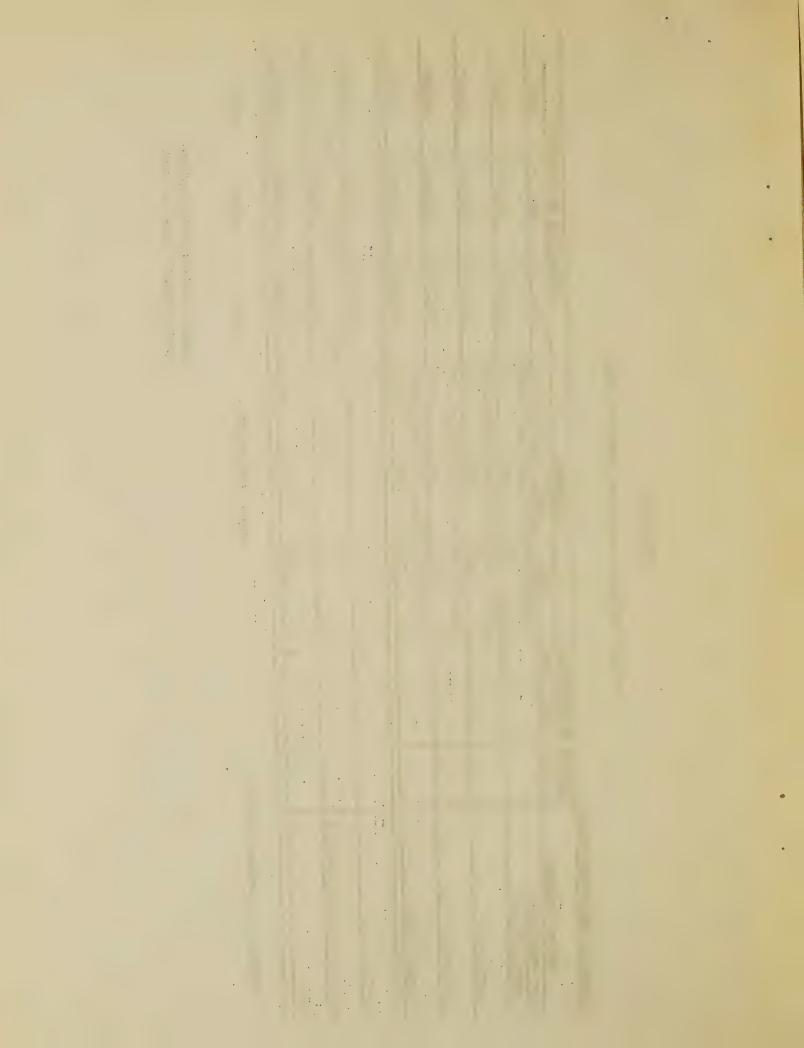


TABLE VIII

ESTIMATE OF LOADS - TEXTILE PRODUCTS SUBSTATION AREA

	ALABAMA 44 COVINGTON (REV.)									
		NUMBER	NUMBER OF CONSUMERS	JMERS		KW DEMAND		ANNO	ANNUAL KWH REQUIREMENTS	ENTS
	TYPE OF CONSUMER	1954	1957	1962	1954	1957	1962	1954	1957	1962
					@548/1.16DF	@548/1.160F @548/1.160F @548/1.16DF	@548/1.16DF			
	TEXTILE PRODUCTS	-	-	-	472	472	472	1,212,000	1,212,000	1,212,000
	SUB-TOTAL							1,212,000	1,212,000	1,212,000
								610%	%01@	€10%
	PLUS DIST. LOSSES (APPROX.)							135,000	135,000	135,000
-								,		
0	TOTAL		-	-	472	472	472	1,347,000	1,347,000 1,347,000	1,347,000
-										
	NOTE: THIS SUBSTATION SERVED DIRECTLY FROM	D DIMECT	LY FROM		AMINO	AMINUAL LOAD FACTOR -	- W	32.6%	32.6%	32.6%

PROGRAM ANALYST, OFFICE OF THE ADMINISTRATOR, REA - MAY 1952

TRANSMISSION LINES.

	W	
		•

TABLE IX

ESTIMATE OF LOADS - GULF NAVAL SUBSTATION AREA

ALABAMA 44 COVINGION (HEV.)									
	NUMBER	NUMBER OF CONSUMERS	JMERS		I'M DENAND		ANINOA	ANNUAL KWH REQUIREMENTS	ENTS
TYPE OF CONSUMER	1954	1957	1962	1954	1957	1962	1954	1957	1962
			and the same of th	@800/1.50F	080	0800/1.5DF			
GULF NAVAL STORES	-		***	533	533	533	3,500,000	3,500,000	3,500,000
				A TOTAL STREET, CONTRACTOR OF THE PROPERTY OF					
SUBTOTAL							3,500,000	3,500,000	3,500,000
							@10%	%010	610%
- PLUS DIST. LUSSES (APPROX.)							389,000	389,000	389,000
AND THE PROPERTY OF THE PROPER									
TUTAL	-		-	533	533	533	533 3,889,000	3,889,000	3,889,000
NOTE: THIS SUBSTATION SERVED DIRECTLY FROM	ED DIRECT	LY FROM			ANNUAL LOS	ANNUAL LOAD FACTOR -	83.3%	83.3%	83.3%

PROGRAM ANALYST, OFFICE OF THE ADMINISTRATOR, REA - MAY 1952

THE TRANSMISSION LINES.

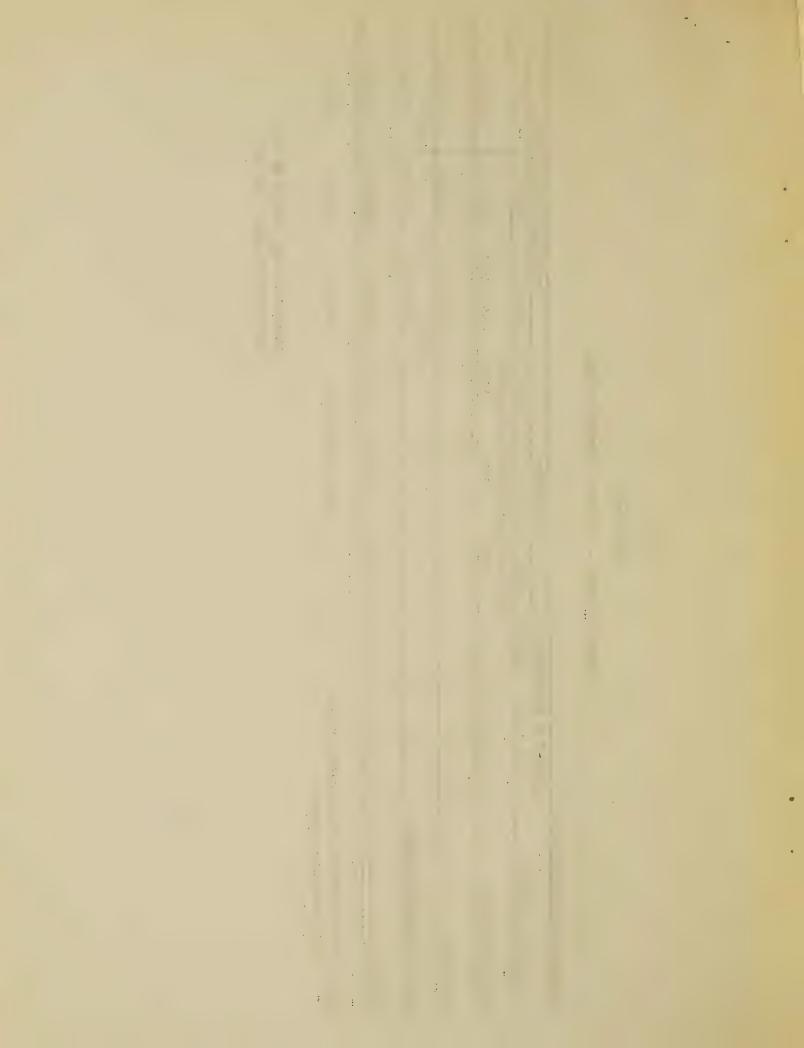


TABLE X

ESTIMATE OF LOADS - SUMMARY OF POWER REQUIREMENTS (BY CLASSIFICATION OF CONSUMERS)

ALABAMA 44 COVINGTON (REV.)									
	NUMBE	NUMBER OF CONSUMERS	MERS		KW DEMAND		ANNU	ANNUAL KWH REQUIREMENTS	MENTS
TYPE OF CONSUMER	1954	1957	1962	1954	1957	1962	1954	1957	1962
FARM	6,320	6,563	6,883	3,903	5,032	7,030	12,513,600	16,932,540	24,778,800
TOWN RESIDENTIAL	858	893	941	747	178	1,099	2,574,000	3,054,060	3,952,200
SMALL COMMERCIAL	445	463	487	474	597	828	1,682,100	2,166,840	3,068,100
SCHOOLS & CHURCHES	210	214	222	35	45	57	1008,800	128,400	159,840
STREET LIGHTING	10	2	2	(m)	15	22	51,000	58,500	72,000
LARGE POWER	20	50	50	1,783	1,783	1,783	7,083,300	7,088,300	7,118,300
SUB-TOTAL PIUS DIST. LOSSES (APPROX.)							24,004,800	29,428,640	39,149,240
TOTAL	7,858	8,158	8,558	6,955	8,343	10,819	29,266,000	35,676,000	47,166,000

ME E M

ERA HIVLE ON FONDS - STRINGS ON HOME'S BEGINNERAL

BITTE DIEL" TORSEE (VABBURT)									
MIS-TOTAL						•	0.5 200 500	26,126,640	34 *140 *500
See Solice		200		***		100 100	1,005,300		
Sweet Figure							21,000		
SCHOOLS & COMPTEE	1/3		ia La	2		7			
JAICSWEED LINE				5					
TATTION NESTORITION		893					000,177,2		3,958,800
			2000		4	7,030		16,932,540	
CASE OF CONSTINES	1024				1331	1465	1654	1007	Tops
	TO STRUCK	1 66 Union	1 2 2 3		CHANGO WA				NEW S

PROGRAM WATCHEL BELIEF OF THE

TABLE XI

ESTIMATE OF LOADS - SUMMARY OF POWER REQUIREMENTS

		NUMBER OF CONSUMERS	MERS		KW DENAMD		ANNU	ANNUAL KITH REQUIREMENTS	MENTS
SUBSTATION AREAS	1954	1957	1965	1954	1957	1962	1954	1957	1962
dd0	1,330	1,372	1,428	881	1,112	1,517	3,537,000	4,595,000	6,462,000
DAMASCUS	1,972	2,083	2,231	1,349	1,728	2,415	5,547,000	7,296,000	10,474,000
RIVER FALLS	2,980	3,076	3,204	2,257	2,766	3,671	9,805,000	12,162,000	16,388,000
BRANTLEY	1,570	1,621	1,689	1,081	1,350	1,829	4,462,000	5,708,000	7,927,000
ANDALUSIA	4	4	4	382	382	382	000,679	000*619	000°629
TEXTILE MILLS	-	-	-	472	472	472	1,347,000	1,347,000	1,347,000
GULF NAVAL STORES	-	-	-	533	533	533	3,889,000	3,889,000	3,889,000
TOTAL	7,858	8,158	8,558	6,955	8 ,343	10,819	29,266,000	35,676,000	47,166,000
					ANNUAL LOAD FACTOR -	FACTOR -	48.0%	48.8%	49.8%

1.9

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1,1230

1 24 50

1,330

STREETY TON VIEWS

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WINT KIN BEINBERALS